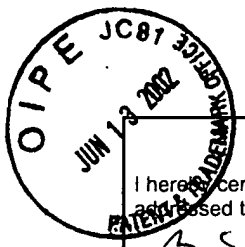
1775 #4 WH 11-07-02




CERTIFICATE OF MAILING

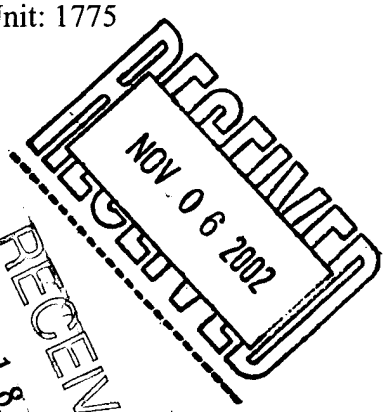
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on June 7, 2002.

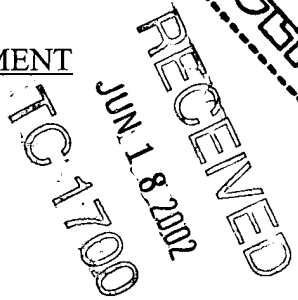
Attorney for Applicant(s)

PATENT APPLICATION
Docket No.: SJO920010058US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|---|---|---|
| Applicant(s): | Tsann Lin and Daniele Mauri | ) |
| Serial No.: | 10/066,835 | ) |
| Filing Date: | February 4, 2002 | ) Group Art Unit: 1775 |
| For: | *IN-SITU* OXIDIZED FILMS FOR USE AS GAP LAYERS IN A SPIN-VALVE SENSOR AND METHODS OF MANUFACTURE | ) |




INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner
for Patents
Washington, D.C. 20231

Sir:

This Information Disclosure Statement discloses information which has come to the attention of applicant and his attorneys and is being submitted so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56. In accordance with 37 C.F.R. § 1.97(b), this Statement is being filed within three (3) months of the filing date of the above-identified application or before the mailing date of a first Action on the merits.

Neither applicant nor his attorneys make any representation that any information disclosed herein may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103. Moreover, pursuant to 37 C.F.R. § 1.97, the filing of this Information Disclosure Statement

shall not be construed as a representation that a search has been made or as an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

In accordance with 37 C.F.R. § 1.98, this Information Disclosure Statement includes and is accompanied by:

1. A completed copy of Form PTO-1449 listing the patents, publications and other information being submitted for consideration; and
2. A legible copy of each patent, publication and other item of information in written form listed on the enclosed Form PTO-1449.

NON-ENGLISH INFORMATION

Pursuant to 37 C.F.R. § 1.98, following is a concise explanation of the relevance (as it is presently understood by the individual designated in 37 C.F.R. § 1.56(c) most knowledgeable about the content of the information), of each listed patent, publication or other information that is not in the English language.

**APPLICATION NO. DE 19720197**

**Abstract:** The apparatus has an increased magnetoresistive effect with a spin dependent electron control of majority and minority electrons. The system has a weakly magnetic measurement layer and a bias layer system which is relatively more magnetic. A decoupling layer is provided between the at least one measurement layer and the at least one bias layer system. The bias layer system (16) has at least one reflector layer part which is dependent on spin with respect to the electrons. The reflector layer part has at least on boundary surface which reflects the electrons in dependence on their spin. The reflector layer part also has regions in which there is an at least continuous diffuse scattering on non-reflected electrons. The reflector layer part has a soon dependent reflecting reflector layer (22) within the at least on bias layer system (16).

**APPLICATION NO. DE 19652536**

**Abstract:** The thin film construction of a magnetic field sensitive sensor includes a GMR or AMR magnetic layer system. Special reflectors are used to increase the signal value of the sensor. At least one of the reflectors exhibits a dependence on the spin polarisation of the electrons according to the majority or minority electrons of the GMR ro AMR magnet layer system. The reflector is made of copper, silver, gold or aluminum. At least one reflector is composed of several layers. An electron scattering layer is arranged on the side of the spin-dependent reflector.

Respectfully submitted,

Date: June 7, 2002

Brian C. Kunzler
Reg. No. 38,527
Attorney for Applicant

Brian C. Kunzler
10 West 100 South, Suite 425
Salt Lake City, Utah 84101
Telephone: 801/994-4646